

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/822,548	04/12/2004	Marc Seghatol	1550.36US03	1792
;	7590 09/19/2005	EXAMINER		
Brad Pederse	n	BUTLER, PATRICK NEAL		
Patterson, Thu 4800 IDS Cent	ente, Skaar & Christens ter	ART UNIT	PAPER NUMBER	
80 South 8th Street			1732	
Minneapolis, MN 55402-2100			DATE MAILED: 09/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

_	_	
•	•	V

	Application No.	Applicant(s)				
Office Action Summany	10/822,548	SEGHATOL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Patrick Butler	1732				
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 10 Ju	ne 2005.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-14,17 and 30-41</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14,17 and 30-41</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	ī.					
10) ☐ The drawing(s) filed on is/are: a) ☐ acce	epted or b) objected to by the E	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
·						
Attachment(s) Albeitag of References Cited (RTO 993)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	_	atent Application (PTO-152)				
Paper No(s)/Mail Date <u>20040812820050302</u> . 6) Other:						

ne

DETAILED ACTION

Priority

If applicant desires benefit of a previously filed application under 35 U.S.C. 119(e) or 120, specific reference to the earlier filed application must be made in the instant application. For benefit claims under 35 U.S.C. 120, 121 or 365(c), the reference must include the relationship (i.e., continuation, divisional, or continuation-inpart) of the applications. This should appear as the first sentence(s) of the specification following the title, preferably as a separate paragraph unless it appears in an application data sheet. The status of nonprovisional parent application(s) (whether patented or abandoned) should also be included. If a parent application has become a patent, the expression "now Patent No. ______" should follow the filing date of the parent application. If a parent application has become abandoned, the expression "now abandoned" should follow the filing date of the parent application.

If the application is a utility or plant application filed under 35 U.S.C. 111(a) on or after November 29, 2000, the specific reference must be submitted during the pendency of the application and within the later of four months from the actual filing date of the application or sixteen months from the filing date of the prior application. If the application is a utility or plant application which entered the national stage from an international application filed on or after November 29, 2000, after compliance with 35 U.S.C. 371, the specific reference must be submitted during the pendency of the application and within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) or sixteen months from the filing date of the

prior application. See 37 CFR 1.78(a)(2)(ii) and (a)(5)(ii). This time period is not extendable and a failure to submit the reference required by 35 U.S.C. 119(e) and/or 120, where applicable, within this time period is considered a waiver of any benefit of such prior application(s) under 35 U.S.C. 119(e), 120, 121 and 365(c). A benefit claim filed after the required time period may be accepted if it is accompanied by a grantable petition to accept an unintentionally delayed benefit claim under 35 U.S.C. 119(e), 120, 121 and 365(c). The petition must be accompanied by (1) the reference required by 35 U.S.C. 120 or 119(e) and 37 CFR 1.78(a)(2) or (a)(5) to the prior application (unless previously submitted), (2) a surcharge under 37 CFR 1.17(t), and (3) a statement that the entire delay between the date the claim was due under 37 CFR 1.78(a)(2) or (a)(5) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional. The petition should be addressed to: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Information Disclosure Statement

The information disclosure statements filed 03 February 2005 and 12 August 2004 fail to comply with 37 CFR 1.98(a)(3) because they do not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. They have been placed in the application file, but the information referred to therein has not been considered.

Art Unit: 1732

The information disclosure statement filed 12 August 2004 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: Hand-healed Microwave Polymerization Method for Dentistry.

Claim Objections

Claim 5, 13, 31, 34, and 38 are objected to because of the following informalities: methacryloxypropoxy is misspelled as methacrylyloxypropoxy. Appropriate correction is required.

Claim Rejections - 35 USC § 112

Claim 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 17, the phrase "i.e." renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Application/Control Number: 10/822,548 Page 5

Art Unit: 1732

Claim Rejections - 35 USC § 101 and 112

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 17 provides for the use of a hand-held microwave applicator, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim 17 is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

For purposes of examination, Claim 17 is taken to be a method claim. As a method claim, it is taken to recite the steps of 1) providing a hand-help microwave and 2) hardening a material comprising polymers and polymer containing composites at the site of application.

Claim Rejections - 35 USC § 102

Art Unit: 1732

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-14, 17, and 30-41 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Stangel et al. (US Patent No. 6,605,651).

Stangel teaches Claim 1 (See Stangel, Claim 1).

Stangel teaches Claim 2 (See Stangel, Claim 6).

Stangel teaches Claim 3 (See Stangel, Claim 7).

Stangel teaches Claim 4 (See Stangel, Claim 1).

With respect to Claim 5, Stengel teaches using 2,2-bis[4-(2-hydroxy-3-methacryloxypropoxy) phenyl] propane.

Stangel teaches Claim 6 (See Stangel, Claim 20).

Stangel teaches Claim 7 (See Stangel, Claim 21).

With respect to Claim 8 and 9, Stangel teaches using benzoyl peroxide (peroxide) as the initiator (See Stangel, Claim 22).

With respect to Claim 10, Stangel teaches 0.05-1% initiator, which overlaps the claimed range of up to 2.5% (See Stangel, Claim 23). Moreover, Stangel teaches 0-15% (see col. 7, lines 11-15).

Stangel teaches Claim 11 (See Stangel, Claim 25).

Stangel teaches Claims 12, 13, 30, and 31 (See Stangel, Claim 2).

Stangel teaches Claims 14 and 32 (See Stangel, Claim 17).

With respect to Claim 17, Stangel teaches using material containing polymers and polymer containing composites. It is inherent in performing a step that it will have a location (site). Therefore, "at the site of application" is met by any step occurring at any location (See Stangel, Claim 1). Moreover, Stangel teaches doing the steps at the tooth (see col. 10, lines 17-25).

Stangel teaches Claims 33 and 34 (See Stangel, Claim 3).

Stangel teaches Claim 35 (See Stangel, Claim 10).

Stangel teaches Claim 36 (See Stangel, Claim 11).

Stangel teaches Claims 37 and 38 (See Stangel, Claim 4).

Stangel teaches Claim 39 (See Stangel, Claim 12).

Stangel teaches Claim 40 (See Stangel, Claim 13).

Stangel teaches Claim 41 (See Stangel, Claim 14).

Double Patenting

Applicant is advised that should claim 12 be found allowable, claim 30 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. Applicant is advised that should claim 13 be found allowable, claim 31 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. Applicant is advised that should claim 14 be found allowable, claim 32 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in

Application/Control Number: 10/822,548 Page 8

Art Unit: 1732

wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick Butler whose telephone number is 571-272-8517. The examiner can normally be reached on Monday through Friday 7:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni can be reached on 571-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patrick Butler Examiner

Patrick Butler

Art Unit 1732

MICHAEL P. COLAIANNI
SUPERVISORY PATENT EXAMINER